

KISS, Jozsef, dr.

On cervical pregnancy. *Magy. noorv. lap.* 21 no. 1:24-31 Jan '60.

1. A XX. ker. Szulo- és Nőbetegkórház közleménye (Igazgató-
előre: Kiss József, dr.

(PREGNANCY ECTOPIC case reports)

NAGY, Andor, dr.; KISS, Jozsef, dr.

Activity of oncological dispensaries in the prevention of cancer and outpatient services for cancer patients. Nepegecsszegy 42 no.10: 301-304 0 '61.

1. Koslemany as Orszagos Onkologiai Intezetbol (izsgato: Vikol Janos dr.).

(NEOPLASMS hosp & clin)

(HOSPITAL OUTPATIENT SERVICES)

KISS, Jozsef, dr.; MAYLATH, Jozsefne okl. vegyes

Early diagnosis of arteriosclerosis and allied disorders with the aid of an index. Orv.hetl. 102 no.31:1454-1456 30 J1 '61.

1. Budapesti Janos Korhas, III. Belosztaly.

(ARTERIOSCLEROSIS diag)

ACC NR: AT6023533

SOURCE CODE: HU/2505/65/027/002/0179/0185

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TITLE: Effect of elastase on the lipid metabolism of arteriosclerotic patients

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 27, no. 2, 1965, 179-185

TOPIC TAGS: circulatory system disease, blood pressure, ketone, biologic metabolism,
drug treatment

ABSTRACT: Thirty patients with severe arteriosclerosis and hypertension were given
3 x 1 and 3 x 2 elastase pills daily for 6 weeks, in order to determine whether lipid
metabolism can be influenced with elastase. The results revealed an average drop of
17 per cent in the level of cholesterol. The number of ketone bodies increased by an
average of 14 per cent, that is, they became normalized. The arteriosclerotic index
(cholesterol mg per cent/ ketone bodies mg per cent) which was elevated before the
treatment, was nearly normal following it. As a result of the treatment, a 36 per
cent increase was observed in the elastase inhibitor values. On the basis of the
experimental results it is assumed that elastase does play a role in lipid metabolism.
Orig. art. has: 4 figures and 5 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 12Mar64 / ORIG REF: 006 / OTH REF: 014

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• Absorption spectra of diastereoisomeric alkaloid bases derivatives. Preliminary communication Jouni Kinn and László Láng *Acta Univ. Szeged, Chem. et Phys. Sci.* 3, 305 (1969) (in English). di-Ephedrine had absorption max. at 251, 256, and 263 mμ; di- ϕ -ephedrine 251, 256, and 265; N-isosoyl-di-ephedrine, N-isosoyl-1- ϕ -ephedrine, N-isosoyl-di-norephedrine, N-isosoyl-di-n- ϕ -ephedrine, N-isosoyl-1- ϕ -norephedrine and N-isosoyl-1- ϕ -n- ϕ -ephedrine showed several branching branches; N-acetyl-3,4-dihydro-di-norephedrine at 261 and 267; N-acetyl-3,4-dihydro-di-n- ϕ -ephedrine at 261 and 267; N-1-acetyl-3,4-dihydro-di-norephedrine at 261 and 267; N-1-acetyl-3,4-dihydro-di-n- ϕ -ephedrine at 261 and 267; N-acetylphenylethanolamine at 251, 264, and 265; N-acetylphenylethanolamine at 252, 256, and 265; whereas N-isosoylphenylethanolamine and N-isosoylphenylethanolamine showed branching branches. [in Hungarian]

Configurations of allylic amino alcohols. G. Feder and J. Kise (Univ. Sargent, Hong.). *Nature* 164, 917-18 (1949).—Investigations of the acyl migration reaction $N \rightarrow O$ (cf. C. I. 43, 4289) were extended to diastereoisomeric allylic amino alcohols to establish their positions. When 2-benzamido-3-cyclohexanol in 190° and 174° were treated separately with alk. HCl at room temp., the 190° material rearranged more rapidly (by a factor of 10 or 20) and was considered to be cis; it gave cis-1-benzyl-2-amino-3-cyclohexanol HCl, m. 228°, also thought to be cis. The 174° material, considered to be trans, gave cis-1-benzyl-2-amino-3-cyclohexanol-HCl (trans), m. 281°. Both HCl salts were rearranged to the original amides by alkali. At 190° the rates of rearrangement of the 2 amides were most nearly alike, but the same products as before were obtained. The studies are to be extended to the amino lactams. H. H. Voss.

Organic Chemistry - 10

The synthesis of *trans-2,3,4,5-tetrahydro-2H-pyran-2-one* (I) (Kobayashi, H. J. Org. Chem., 1961, 26, 3414) (in English). The previously unknown *trans-2,3,4,5-tetrahydro-2H-pyran-2-one* (I) (same configuration as epichlorohydrin) was prepared by the Hartung amino acid synthesis. On treatment with alkali, I decarboxylated easily. Enzymes, such as an est. of guinea pig kidney, also partly decarboxylated I, proving that its behavior differs from that of the tautomers of the isomeric pseudopyridine oxides $2,4,5,6\text{-tetrahydro-2H-pyran-2-one}$ (II), $2,3,4,5\text{-tetrahydro-2H-pyran-2-one}$ (III) and $2,3,4,5\text{-tetrahydro-2H-pyran-2-one}$ (IV). I was obtained by introducing HF, gas into 22 g. pyruvate in 50 g. 80% methanol at 35-40° and cooling with ice until the mixture in 40 ml. was 20 g., heating on a steam bath 60 min., pouring with stirring into 50 g. NaOH in 200 ml. water, cat. the oily suspension with NaOH in ether, drying the solvent on fused NaOH, and dist. in vacuo. *trans-2,3,4,5-tetrahydro-2H-pyran-2-one* (III) was prepd. by adding 10 g. 20% ether soln. of HCl to 25 g. II in 100 ml. dry ether, then, slowly at 0°, 1 g. freshly dist. Bu_4NOH in 25 ml. abs. ether, keeping overnight in a refrigerator, and

removing the solvent at 30°. *trans-2,3,4,5-tetrahydro-2H-pyran-2-one* (IV), in 112 20° (decamp.), was obtained by hydrogenating 20.3 g. III in 200 ml. abs. EtOH over Pd charcoal in the usual manner 12 hrs. in the presence of 0.1 ml. 40% HCl in abs. EtOH, filtering, evap. in vacuo at 30°, dissolving the residue in abs. EtOH, evap. again, and drying in a desiccator. In the alk. hydrolysis of IV, 2.8 g. IV was shaken with 50 ml. NaOH soln. I hr. in a current of H₂, neutralized with HCl, shaken again in a current of H₂, decarboxylated with 0.1 g. 10% Pd charcoal in a current of H₂, and filtered. The product was nondecolorizing, proving that decarboxylation took place. When 3 g. IV was hydrogenated in 50 ml. VHC in a current of H₂ at 30° for 1 hr., treated further as above, and the soln. of the product treated with the decarboxylation of guinea pig kidney, in the case of the three derivatives obtained by vapen., no C₄H₈ formation was observed, whereas the substances obtained by vapen. of acyclic pyran compounds generally developed measurable amts. of C₄H₈. The product obtained in this alk. hydrolysis was I HCl, $2,4,5,6\text{-tetrahydro-2H-pyran-2-one}$ (I) with the *epichlorohydrin* structure.

Configuration of diastereoisomeric 1-methoxy-4-hydroxyphenylpropanolamines. (Chen, Hsueh, I. Kuo, and Miao, S. *Sinica (Chim. Sec.)* (Hong Kong) 1977, *Chem.* 15, 227-231 (1978).) In the paper, of 1,4-MeO-C₆H₄-CH(OH)-CH₂-NH₂Me (I) from two enantiomers (III) via RCH(OH)-CH₂-NH₂Me (R = 1,4-MeO-C₆H₄ or 3,4-MeO-C₆H₄) to RCH(OH)-CH₂-NH₂Me (III) and RCH(OH)-CH₂-NH₂Me (IV) and (I) in 20% yield. When I is prepared from II via 1,4-MeO-C₆H₄-CH(OH)-CH₂-NH₂Me (I) and 1,4-MeO-C₆H₄-CH(OH)-CH₂-NH₂Me (IV) and (I) in 17% yield. According to Wobbe (1,41, 2402), it has the same configuration as ephedrine, where is it has that of pseudoephedrine (VI). Because III and V have the same configuration any change in it must mean either in the conversion of III into IV or during the deacetylation of V. Because reacylation of IV gives III again, no change in configuration can take place during the deacetylation, and IV must have the configuration of VI. To prove that in the deacetylation of V

a Wobbe insertion is involved, 1,4-methoxy-4-hydroxyphenyl-2-amino-1-propanol is synthesized by a method which leads selectively with subsequent complete to non-ephedrine derivative. Course of 12.4 g (0.148 g) of VIII is added with HCl with stirring 5 hrs. until the oil has increased 15 g, the most heated 1.5 hrs. at 70°, poured into 50 cc. H₂O containing 22 g. NaOH, and extracted with ether, distillate of the ether residue gives 2.4 g. 1,4-MeO-C₆H₄-CH(OH)-CH₂-NH₂Me (VII), b.p. 105-106°/15 mm. Treating 20 g. VII in 120 cc. C₆H₆ with 2.6 g. 20% HCl in ether and 16.7 g. 30% HCl in C₆H₆ a few hrs. at 0° gives 94% 1,4-MeO-C₆H₄-CH(OH)-CH₂-NH₂Me (VIII), m.p. 141°. Treating 1 g. VIII with 5 cc. 50% HCl, evaporate the water, and heating the residue with 50 cc. H₂O give 0.2 g. vanillin, vanillic acid, m.e.s., m.p. 141°. Treating 1 g. VIII with 50% HCl with stirring and evaporate the water 15-20° gives 0.45% vanillic acid, m.e.s., m.p. 207°. VIII (0.5 g. in 50 cc. C₆H₆) and 100 cc. 5% HCl in 50 cc. C₆H₆ is hydrogenated 6 hrs. in the presence of 10 g. PtO₂ (IX), the HCl neutralized with NaOH, the most filtered, and the filtrate evaporated to dryness, distilled with 150 cc. H₂O, and hydrogenated again 5 hrs. with IX, giving 50% 1,4-methoxy-4-hydroxy-2-amino-1-propanol in 20% yield.

low (X), yellowish crystals, m. 180-201. Methylates
of X with CH_3ONa gives the 4-Me ether, m. 191-192, the Ac
deriv. (XI), prepd. with $\text{Ac}_2\text{O}/\text{CH}_3\text{ONa}$ at 20° in 1 hr.
Treating XI 10 hrs. with 4 N HCl in abs. EtOH leaves it
unchanged. Treating 0.56 g. X with 0.5 ml. Ac₂O gives
0.750 g. N-Ac deriv. (XII), m. 142-143°, which, refluxed
30 hrs. in 25 cc. anhyd. EtOH with 0.15 cc. PhCl/HCl and
0.024 g. Na, gives 0.15 g. N-acetyl-methoxy-4-benzoyloxy-
m-naphtholone, plates, m. 145-146°. From 1 g. III (XV)
in acetone 4-benzoyloxy m-naphtholone (XVI) is
15 cc. abs. EtOH treated 0.5 hr. with H in the presence of H₂
and the reaction product kept with $\text{Ac}_2\text{O}/\text{CH}_3\text{ONa}$ 20 hrs. at
20°, is obtained 0.2 g. V, m. 163°, melting with HCl in
EtOH the N-Ac deriv. HCl salt, m. 192°, which with H₂O
gives V again. IV (3-methoxy-4-benzoyloxy m-naphtholone)
exceeds m. 120°, with Ac_2O gives III, m. 140°. Keep-
ing 0.11 g. V with 0.5 ml. N HCl 20 hrs. at 20° and heat-
ing the melt 1 hr. on a steam bath gives a melt of the
stereoisomers, plates, m. 184-185°, which cannot be sep-
arated by crystals. Treating 0.185 g. X HCl 3 hrs. with 0.6 cc.
4 N HCl in abs. EtOH gives 20 mg. N HCl, formed by a
hydroxyl cleavage. Refluxing 0.002 g. X HCl 10 min.
with 0.15 cc. 4 N HCl in 10 cc. abs. EtOH gives a melt of
stereoisomers, m. 184-185°. b. p. 180-185°.

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Acyl migration O → N in the diastereomeric 2-aminocyclohexyl benzoates. Gábor Fodor and L. Kán (Univ., Budapest, Hung.). *J. Am. Chem. Soc.* 72, 5486-7 (1950).—*trans*-2-Aminocyclohexyl benzoate (I) (3.5 g.) in 8.7 cc. abs. EtOH and 5 cc. 5 N aq. EtOH-HCl, heated 2 hrs. at 100°, gives 40% unchanged I and 60% *trans*-2-aminocyclohexyl benzoate II (III), m. 224°. The *trans*-isomer (III) of I similarly gives 43% recovered III and 57% of the *trans*-isomer (IV) of II, m. 274°. II (0.220 g.) in 20 cc. H₂O, treated with 0.55 cc. N NaOH, gives an oil which, on

scratching and addn. of excess alkali, yields 0.171 g. I. (0.221 g. IV with 0.8 cc. NaOH) gave an oil which did not crystallize until the further addn. of 0.6 cc. alkali, when it yielded 0.121 g. III. The intermediate oil from II is *trans*-2-aminocyclohexyl benzoate, which can be isolated by immediate crystallization in EtOH to the *trans*-isomer (V), m. 180°. *trans*-2-Aminocyclohexyl benzoate III (0.221 g.) in 10 cc. EtOH and 0.8 g. *p*-McCall, 20% in 3 cc. EtOH, stirred with excess alkali, give 0.701 g. of the *N*-acyl form (VI), m. 152°. with HCl in EtOH it yields V. Similarly 1.125 g. IV yields 0.9 g. of the *trans*-isomer (VII) of V, m. 164-70°. The *trans*-isomer of VI, m. 124°, gives VII with HCl in EtOH. A mechanism of the O → N acyl migration is suggested. C. J. West

[illegible]

Configuration of diastereoisomers 2-amino-3-hydroxy-4-methylpentanoic acid and a suggested mechanism for acyl migration R-O. Cation Proton and L. Hsu (1950) Sargent, Hsu, L. Acta Chem. Sinica 1, 141 (1951) (English). 2. 2-amino-3-hydroxy-4-methylpentanoic acid (I) in 10% aq. solution in 10 g. yield by treating a suspension of 10 g. of α -Ac-NH₂CH₂CH₂CH₂COOH with 10 g. of 20% aq. NaOH in an autoclave at 100°C with continuous shaking, allowing to stand 2 hrs. at this temp. and pressure, filtering, adding the filtrate in water at 35°C, and fanning the residue with formal Me₂CO a few min. diastereoisomer 2-amino-3-hydroxy-4-methylpentanoic acid (II) in 10% aq. solution in 12.2 g. yield by refluxing 10 g. I with 100 ml. 10% HCl 2 hrs., adding the acid, diluting with water to neutral, and concentrating by the Schotten-Baumann reaction. diastereoisomer 2-amino-3-hydroxy-4-methylpentanoic acid (III) was obtained by acetylation of 2-amino-3-hydroxy-4-methylpentanoic acid (II) by a Schotten-Baumann reaction of the amino group with acetyl chloride, Me₂CO, and HCl, 10% aq. solution. When II was treated with 2 molar HCl, 10% aq. solution, 2-amino-3-hydroxy-4-methylpentanoic acid (III) was obtained. If the amt. of HCl added was increased to 10 or 25 molar, the yields were 33 and 50%, resp. Powder

treatment of III gave yields below 4%. When II or III was treated 2 hrs. in a sealed tube at 100°C 2 molar HCl was sufficient to reach a yield of 4%. These results are interpreted by assuming that the acyl shift is a two-step process. First an unstable 2-amino-3-hydroxy-4-methylpentanoic acid (IV) is formed, which is unstable, such as 4-allyl. This product is cleaved, or rearranged in just a few minutes by heating. In the equal between amide and amide salt is shifted toward the amide, and an excess of HCl shifts it toward the amide salt. The 2nd step of the acyl shift is a rearrangement to an α -amino acid, the rate of which is determined by the distance between the reacting groups. The various distances between the substituents may also explain the occurrence of an incomplete acyl migration even for the same form. The marked difference between the extent of acyl migration of the diastereoisomers 2-amino-3-hydroxy-4-methylpentanoic acid at room temp. is a function of their stereostructure. (1950) Sargent

FODOR, G.; TOT, I.; KOVACS, E.; KISS, J.

Synthesis of chloroanphenicol. Izv. AN SSSR. Otd. khim. nauk no. 3:
440-451 My-Je '440-451 (MIRA 8:9)

1. Institut organicheskoy khimii Universiteta g. Seged, Vengriya
(Acetamide)

② 5

Note on preparation of stereoisomeric α,β -diphenyl- β -hydroxyethylamines by Weiland, et al. *Acta Chim. Hung.* 1962 (1962) in English. — Review of literature concerning the stereochemistry of the α,β -diphenyl- β -hydroxyethylamines and expl. details for prepn. of the high-melting racemate (I) of 1,2-diphenyl-2-aminoethanol. Benzil monophenylhydrazones (4.8 g.) in 200 ml. abs. EtOH mixed with 10 ml. 6N HCl in abs. EtOH, and 1 g. 10% Pd-C in 1 hr absorbed 1000 ml. H (calcd. 1010 ml); evapn. of the EtOH and neutralization of the 1.HCl in 100 ml. water with 10% NaOH gave 3.1 g. (80.5%) I, m. 164–5°. M. D. A.

Reductive cleavage of derivatives of one mono(phenylhydrazones). (J. Am. Chem. Soc. 73, 100-101 (1951) (in German).) The method described earlier (cf. preceding abstr.) was extended to obtain other aryl alkanolamines by the reductive cleavage of benzil monophenylhydrazones over Pt-C. Nor-ephedrine was prepd. in good yield in this way from PhCOC(:NNHPh)Me (I). This confirms the correctness of the expts. of Auwers and Ludwig (C.A. 31, 675) as against the statements of Kolb (Ann. 291, 247 (1900)) proving that I is a phenylhydrazone deriv. In the reduction of PhN:NCI(CHO)Ba (Ia) under similar conditions both the N-N bond and the C-N bond are broken. The BaCl₂(NH₂)CHO formed is stabilized, by dimerization or polycondensation. PhNHNH₂ formed here as a by-product is partly reductively cleaved to NH₃ and PhNH₂. The ultraviolet absorption spectrum of Ia, and the behavior of Ia when treated with reagents characterizing various radicals confirms the probability of the existence of a hydrogen bridge or of an inner salt.

Israhn Findly

KIES, J.

Hungarian Technical Abst.
Vol. 6 No. 1
1954

14. The *trans*-ethylnic configuration of sphingolipids
— A sphingolipid *trans*-ethylnic sphingolipid — G. Kries and
Kim (Hungarian Journal of Chemistry — *Magyar Kémiai*
Folyóirat — Vol. 30, 1953, No. 1, pp. 29–31, 6 figs.)
Triacetyl sphingamine and triacetyl dihydrosphingamine
do not give a m.p. depression in the mixture but
form mixed crystals. The case is the same with triacetyl
derivatives. Considering the *trans* role the conclusion
can be drawn that natural sphingamine is of a *trans*-
ethylnic configuration.

P-31-54
JJP

② Chem 4

547032-5410

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Biological Chemistry

The structure of brain sphingosine. József Kise and Dezső Bánfi (Univ. Szeged, Hung.). *Magyi Kém. Füzetek* 39, 233-4 (1953); cf. *C.A.* 47, 8644a. — Natural sphingosine was converted by ozonolysis into α,γ -dihydroxy- β -amino-butyrolactone. The latter was then converted into threoninol or into a related compd. of known configuration. Aminotetrose was isolated in form of its dinitrophenyl osazone among the decomn. products of the ozonolysis of diacetylsphingosine. Aminotetronic acid obtained at the ozonolysis of triacetylsphingosine was sepd. in a cryst. form as its well defined lactone-HCl. István Fialdy

1.0 g. of compound I gave an oil which was washed 30 min. at 60°C. (bath) with 50 ml. 30% H₂O₂. Evapn. of the aq. soln. gave 1.3 g. oil; this on standing 1 week in 25 ml. 3N HCl, concg., adding alc. and Et₂O, evapd., and crystg. the residue from 10 ml. alc. gave 0.04 g. III. Evapn. of the filtrate and 2 resins of the residue (0.54 g.) with alc. gave resin. III (0.25 g.) in 15 ml. H₂O was shaken 3 days with H and 0.5 g. Pd-C (5% PtO₂), the combined filtrate and washings evapd. in vacuo, and the residue treated with two 25-ml. portions EtOH and EtOH-Et₂O to give 0.162 g. 3-amino-2,4-dihydroxybutyraldehyde-HCl (IV), m. 207-8° (decomp.). α 14.22.5° (c 0.4, H₂O). IV (0.11 g.) in 15 ml. H₂ hydrogenated 2 weeks with 0.5 g. Pd-C, the filtrate and washings evapd. in vacuo, and the residue, crystd. from MeOH-Et₂O, gave 0.035 g. hygroscopic (n = 1.47) 3-amino-1,3,4-butanetriol (V), m. 172-4°. α 14.1° (c 0.634, H₂O). IV could also be hydrogenated with

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Raney Ni at 120 atm. and 80°. *o*-threo-2-hexamido-3,4-dihydroxy- γ -butyrolactone (2 g.) and 10 ml. SOCl_2 gave 1-(4-oxo-2-amino-3-hydroxy- γ -butyrolactone-HCl) (VI) by the method of Hamel and Painter (C.A. 48, 3006). A by-product (0.8 g.), m. 100-1° (from abs.), is optically 2-hexamido-3-chloro-4-hydroxy- γ -butyrolactone (VII), [a]_D²⁰ -120° (c 0.5, EtOH). An aq. suspension of 1.5 g. VII treated with 10 ml. *N* NaOH gave 0.7 g. 2-phenyl-5-hydroxymethyl-4-carboxymazoline lactone (VIII), m. 150-51° (from 1:1 EtOH-petr. ether). Heating (100-5°) 2-phenyl-5-hydroxymethyl-4-carboxymazoline lactone-HCl also gave VIII. VIII was optically inactive and could not be hydrogenated at 100 atm. with Raney Ni. VI (2.5 g.) (II) and P., loc. cit.) in 150 ml. H₂O with 15 g. Raney Ni hydrogenated 12 hrs. at 80° and 120 atm., 0.1 g. Mg powder added, hydrogenation continued 4 hrs. at 100-3° and 120 atm. (when the Fehling test was neg.), the combined filtrate and washings cooled, in vacuo and evaporated with aze. C₆H₆, and the residue (2.1 g.) crystal. from MeOH-Et₂O gave 1-(4-*o*-threo-2-amino-1,2,4-butanetriol-HCl) (IX), m. 201-3° (fuming), [a]_D²⁰ 1.67° (c 3, H₂O). IX is the antipode of V. Similar reduction of 2.5 g. of the *n*-bomer of VI (II) and P., loc. cit.) gave 0.8 g. V, [a]_D²⁰ -1.61° (c 0.5, H₂O), m. 200° (decamp.), which did not depress the m.p. of V from 1. Thus asphigmine is *o*-erythro-2-amino-1,2-dihydroxy-4-trans-oxetanone. (George H. Sutherland)

K. S. J.

/ Synthesis of chloramphenicol. G. Fodor, J. Tóth, K. Kovács, and J. Kálmán (Univ. Szeged, Hung.). *Ismer. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1955, 441-51; *Bull. Acad. Sci. U.S.S.R. Div. Chem. Sci.* 1955, 301-0 (Engl. translation); cf. Fodor, *et al.*, *C.A.* 44, 7273g. — $\text{PbCl}_2 \cdot 2\text{H}_2\text{O}$ (90 g.) in 450 ml. PhMe added to 400 g. NaNO_2 in 200 ml. H_2O in a dark vessel, the stirred mixt. treated 7 hrs. at 0° with 1.4 l. 20% H_2SO_4 with occasional bubbling of CO_2 to break the foam, and the MePh layer filtered gave the crude product, which, washed with EtOH and EtOH-Et₂O, yielded 89 g. *m-erythro-PbCH(NO)CH(NO)CH₂OH* (I), m. 124° , discoloring after several weeks' storage. III (50 g.) treated with stirring in 224 ml. Ac_2O at $25-30^\circ$ over 10 min. under CO_2 with 24 g. concd. H_2SO_4 and 72 ml. Ac_2O , stirred 50 min. longer, dild. with 1 l. ice water, and kept 2-4 days in a refrigerator gave 60% *DL-threo-PbCH(O)CH(O)CH₂OH* (II), m. 72° (from EtOH). (Cl₂- CHCO_2H in the above reaction similarly gave, after treatment of the quenched product with Na_2CO_3 and NaOAc , 46% *DL-threo-PbCH(O)CH(O)CH₂OH* (III), m. 74° (crude), m. 82° (from EtOH). I (54 g.) in 900 ml. Me_2CO treated over 10 min. with 1.160 l. N HCl , then refluxed 3.5 hrs., concd., treated with 130 g. NaHCO_3 , extd. with Et₂O, and the ext. shaken with KHSO_5 gave 68.5% *DL-threo-PbCH(OH)CH(NO)CH₂OH*, m. 82.5° (from Et₂O-petr. ether). Hydrogenation of I in AcOH over Pd-C at 60 atm. gave 40% *DL-threo-PbCH(OH)CH(NHAc)CH₂OH* (III), m. $108-9^\circ$ (cf. U.S. 2,481,885, C.A. 45, 669a), which (1 g.), kept 24 hrs. with 5 ml. quinoline and 1.5 g. Ac_2O , gave 1.1 g. *DL-threo-PbCH(OAc)CH(NHAc)CH₂OH* (IV), m. $79-80^\circ$. III refluxed 2 hrs. with 5% HCl gave 5.5% *m-threo-PbCH(OH)CH(NH₂)CH₂OH.HCl*, m. 192° (cf. U.S. 2,513,215, C.A. 45, 170a). I hydrogenated in

AcOH (CH_3OH) over Pd-C at atm. pressure gave 59.5% *DL-threo-PbCH(OH)CH(NH₂)CH₂OH bisulphate*, m. $130-40^\circ$ (from EtOH), which yielded the free base, m. $82-8^\circ$. Electrolytic reduction of I in 100 ml. AcOH and 200 ml. 96% EtOH with a Hg pool electrode and 20% HNO_3 anolyte in a porous cup at 0.07 amp./sq. cm. and $44-5^\circ$, the catholyte being acidified with HCl , gave in 2 hrs. from 14 g. I, 2.4 g. *DL-threo-PbCH(OH)CH(NH₂)CH₂OH*, m. $160-70^\circ$ (from AcOH). II similarly treated in alc. HCl at $35-7^\circ$ gave 28% Cl-free product, m. 166° . $\text{PbCl}_2 \cdot 2\text{H}_2\text{O}$ (157 g.) in 100 ml. H_2O and 200 ml. EtOAc treated with stirring in 10 min. with 30 ml. 40% NaOH at 20° , with the pH kept at 6-8, the aq. phase extd. with EtOAc, the combined org. wds. evapd., and the residue treated with alc. EtOH-HCl gave 50.5% *DL-threo-PbCH(OH)CH(NH₂)CH₂OH*, m. 174° , which with K_2CO_3 gave the free base, m. $176-6^\circ$, identified as *m-threo-PbCH(OH)CH(NHAc)CH₂OH*. $\text{CH}_3\text{CH}_2\text{CO}_2\text{H}$ instead of HClO_4 in the above gave 64.5% *m-threo-PbCH(O)CH(O)CH₂OH* (V), m. 145° . The latter (15.75 g.) treated with 45 ml. H_2O and 90 ml. EtOAc, then at 25° with 3.45 g. K_2CO_3 , stirred 5 min., and extd. with EtOAc gave 78% *m-threo-PbCH(OH)CH(NHCOCH₃)CH₂OH* (IIIa), m. $64-5^\circ$ (from 60% EtOH), which stirred with pyridine- Ac_2O 0.5 hr. at 100° , yielded 83% *m-threo-PbCH(OAc)CH(NHCOCH₃)CH₂OH* (IIIb), m. $63-5^\circ$ (from 60% EtOH). IIIa kept 15 min. at 70° with Ac_2O gave 72% *DL-threo-PbCH(OH)CH(NHCOCH₃)CH₂OH* (IV), m. $100-1^\circ$ (from EtOAc-petr. ether), which with alc. EtOH-HCl at 0° yielded in 24 hrs. 74% *DL-threo-PbCH(O)CH(O)CH(NH₂)CH₂OH.HCl* (IVa), m. 187° (from EtOH-Et₂O). IV (3.2 g.) in 10 ml. benzene treated with 5 ml. diethyl- Zn (0.04 g. HNO_3 at 0° and kept several days at 0° gave 75.5% HNO_3 analog (IVb) of IVa, $\text{C}_6\text{H}_5\text{NH}_2\text{HCl}$.

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Stereochemical and synthetic studies in the sphingosine field. IX. Ozonolysis of natural sphingosine. J. Kise, G. Endo, and D. Bānfi (Univ. Szeged), *Acta Chim. Hung. Sci. Hung.* 5, 341 R (1963) (in English); *Ch. C.A.* 49, 4521c. To correct a literature discrepancy (Klenk and Diebold, *C.A.* 25, 4278; Niemann and Nichols, *C.A.* 26, 3744), the ozonolysis of sphingosine (I) and its derivs. was re-investigated. The crude sulfate of I (87 g.), obtained by the acid hydrolysis of sphingolipides from the brain and spinal cord of cattle according to Carter, *et al.* (*C.A.* 41,

6221g), suspended in 11 0.5N NaOH, extd. 3 times with 11 ether, the solid residue from the evap. of the combined ether exts. dissolved in 120 ml. dry CH_2Cl_2 , treated at 0° with 120 ml. Ac_2O , and heated 15 min. yielded, after standing a day in the cold, 29.3 g. tri-Ac deriv. (II) of I, m. 102-4°, $[\alpha]_D^{25} -0.7^\circ$ (c 1.1, CHCl_3). Alk. hydrolysis of II gave crude I, m. 60-78°, which (11 g.) was recrystallized to yield 11 g. II, identical with the preceding sample. Thus, no Walden inversion had occurred during the prepn. of II from lipides by their acid hydrolysis, followed by the alk. hydrolysis of II (cf. Jenny and Grob, *C.A.* 49, 6276). Partial alk. hydrolysis of 6.4 g. II in 200 ml. MeOH by letting it stand 12 hrs. at 14° with 40 ml. N KOH in MeOH, evap. the mixt. to 100-20 ml. at 30°, adding 20 ml. H_2O , and extg. with ether yielded from the ether ext. 3 g. N-Ac deriv. (III) of I, m. 60-5°, $[\alpha]_D^{25} -5.5^\circ$ (c 2, CHCl_3); mixed m.p. with the dihydro deriv. of III, 62-111°. The mother liquor from the prepn. of pure II freed from the solvent in vacuo and the residue dissolved in CHCl_3 and neutralized gave an oil, b.p. 170-180° (bath temp.), $[\alpha]_D^{25} -6^\circ$ (c 2, CHCl_3), probably $\text{C}_{18}\text{H}_{35}\text{CH}:\text{CHCH}(\text{OR}')\text{CH}(\text{NHR}')\text{CH}_2\text{OR}'$ ($\text{R} = \text{R}' = \text{Ac}$, $\text{R}'' = \text{Me}$). I (1.3 g.) from the alk. hydrolysis of 2 g. II in 10 ml. dry $\text{C}_2\text{H}_5\text{N}$ treated with 4 g. $p\text{-Cl}_3\text{NC}_6\text{H}_4\text{COCl}$, heated 15 min. on a steam bath, allowed to stand 1 day at room temp., 20 ml. H_2O added, and the mixt. extd. with CHCl_3 yielded 1.14 g. tri-(p -nitrobenzoyl) deriv. (IV) of I, m. 138-9° (from 90% $\text{Me}_2\text{CO}-\text{H}_2\text{O}$). Similar treatment of 2 g. dihydro-sphingosine (V) gave 2.5 g. tri-(p -nitrobenzoyl) deriv. (VI) of V, m. 144-5° (from abs. EtOH); mixed m.p. with IV, 138-42°. Alk. hydrolysis of VI gave the $N\text{-}p\text{-Cl}_3\text{N}-\text{C}_6\text{H}_4\text{CO}$ deriv. (VII) of V, m. 124-8° (from oil. EtOH). The stability and crystn. properties of IV, VI, and VII

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were not appropriate for ozonolysis, and only I and II were used. O_3 (5%) bubbled through 8 g. II in 100 ml. $CHCl_3$ 1.5 hrs. at room temp. pptd. the ozonide, and evapd. the $CHCl_3$ in vacuo, shaking the residue 60 min. with 100 ml. H_2O , and cooling in ice yielded 4 g. H_2O -insol. oil (VIII), sepd. by petr. ether into (I) 0.8 g. petr. ether-sol. myristic acid, m. and mixed m.p. $51-2^\circ$ [*N*-benzylisothiuronium salt, m. 138° (cf. Donkany, C.A. 30, 5192²), and (2) glacial AcOH-sol. myristic aldehyde (IX), which reduced Fehling soln. and yielded 0.7 g. 2,4-dinitrophenylhydrazine (X) of m. $104-5^\circ$ (from H_2O). The aq. layer sepd. from VIII also reduced Fehling soln., and after evapn. of the solvent, the residual (2.29 g.) slush was acetylated to 0.52 g. $AcOCH_2CH_2CH(NHAc)CH_2(OAc)CHO$, no crystals, but characterized by its compd. with 2,4-(O_2N) $_2$ $C_6H_3NH_2$, probably the osazone of $AcOCH_2CH_2CH(NHAc)COCHO$, m. $175-8^\circ$ (decompn. softening at 180°). Also from the combined aq. mother liquors of the preceding ozonolysis products, acidified, evapd. to dryness, and the residue extd. with hot abs. EtOH, was obtained 0.3 g. 3-amino-2-hydroxy-4-butyrolactone HCl salt, m. $218-20^\circ$, [a]_D²⁰ 47.2° (c 0.564, H_2O), which fails to give ninhydrin and Fehling soln. tests. Similar ozonolysis of I gave no isolatable products except X. The splitting at the double bond was attempted also through the epoxide: 5.1 g. II in 12 ml. $CHCl_3$ treated with 0.35 g. H_2O_2 in 51 ml. $CHCl_3$, allowed to stand 2 days at 0° , and evapd. in vacuo gave a yellow oil, whose ether-insol. portion yielded 1.65 g. epoxide (XI) of II, m. $134-6^\circ$ (from Me_2CO).

[a]_D²⁰ 16.8° (c 0.6, $CHCl_3$) (C.A. 47, 8644⁵). Hydrolysis of 0.6 g. XI by heating 6 hrs. at $120-30^\circ$ in a sealed tube with 10 ml. H_2O gave a tri-Ac deriv. of an amine tetract, but periodic oxidation failed, probably because of the migration of an Ac group so that no vicinal OH groups remained. X Preparation of several long-chain aliphatic ketones. I Sallay Ibid 519 54 (in German) English summary. As a step toward complete synthesis of sphingolipids, the key compd., $n-C_{17}H_{35}CH_2CH_2Ac$ (I), was prepd. after preliminary expts. on model compds. $n-C_{11}H_{23}OH$ (6.4 g.) warmed 7 hrs. on a steam bath with 20.7 g. $POCl_3$ according to Plummer and Hurch (C.A. 23, 417), gave 646 g. crude $C_{17}H_{35}OPOCl_2$ (III), m. $73-83^\circ$ (sample recrystd. from $CHCl_3$). Distn. and redistn. of 200 g. II in vacuo gave the fractions (g., b.p., n_D^{20}): 130.5, b. $147-50^\circ$, n_D^{20} 1.4453, 1.4424; 76, b. $154-7^\circ$, 1.4437 (III); 40, b. $155-7^\circ$, 1.4445. Ozonolysis of III according to Avinger and Reckold (C.A. 38, 579) yielded 8.2 g. mixed acids, sepd. by vacuum distn. into 0.6 g. lauric, b. $90-172^\circ$, and 5.1 g. myristic acid, m. $34-40^\circ$, characterized by their *N*-benzylisothiuronium salts, m. $140-1^\circ$ and 139° , resp. A shift of the double bond had obviously occurred during the thermal

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decomposition of II. The desired pure 1-Callyl¹ (IV) was prepd. from $\text{CaH}_2/\text{O}, \text{CCl}_4/\text{C}_6\text{H}_{10}$ (V) according to Waterman, et al. (*C.A.* 28, 923) by heating 130 g. V under N 4 hrs. from bp. 180° to low boil² giving 951 g. distillate (332 g. Callyl-Cl as residue). The oily distillate in 1 l. petr. ether (b. 30–55°) washed with 3% NaOH and then KOH, dried, treated with Na wire, refluxed 5 hrs., filtered, neutralized, and dried again gave 448 g. crude IV, fractionally distilled to yield 240 g. pure IV, b.p. 151–7°, n_D^{20} 1.4415. On analysis of 40 g. IV yielded the expected $\text{C}_9\text{H}_{14}\text{CHO}$ 35 g. crystals, m. 23–5° (from EtOH); 2,4-dinitrophenylhydrazine, m. 102–3° (Lundy, *C.A.* 20, 362). IV (2.4 g.) in 50 ml. CS₂ and 14.4 ml. AcCl in 20 ml. CS₂ at 0°C. reacted during 30 mins. with rapid stirring with PCl_5 to give 1.4 g. of 1-chloro-1-octene and pure 1-octene, 0.2 g. (total yield 1.6 g., 66%) of $\text{CH}_3(\text{CH}_2)_6\text{CH}=\text{CH}_2$ (VI), which after removal of solvent and redistillation yielded 7.9% pure VI, b.p. 100–101° (lit.³ 99–100°) from EtOH. This small scale trial has been used as a method for analogy of VI (CAME, VII) with analogs of III and chlorides previously used for the synthesis of acid ketones (Gidman and Nelson, *C.A.* 30, 5951). As preliminary model expts., 0.1 mole VII prep'd according to Cason (*C.A.* 41, 397g), in dry C_6H_6 , was treated with ice cooling during 10 min. with 0.1 mole $\text{C}_6\text{H}_5\text{COCl}$ (VIII) in 20 ml. dry C_6H_6 , and the mixt. refluxed 1 hr., cooled to 0°, and poured onto 200 ml. 10% aq. soln. H_2SO_4 ; from the C_6H_6 layer was obtained 75% $\text{C}_6\text{H}_5\text{CH}_2\text{Ar}$, m. 51–5° [semicarbazone, m. 110°]. Similar reaction of $\text{C}_6\text{H}_5\text{COCl}$ in place of VIII yielded 70% $\text{C}_6\text{H}_5\text{CH}_2\text{Ar}$ (IX), m. 46–8°; semicarbazone (X), m. 121–2°. These 2 good yields encourage the use of VII in the preps.

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HCl yielded from the ether layer 120.1 g. (99%) II, b.p. 175° (cf. Vincentini and Merckling, C.A. 47, 12252e). $p\text{-O}_2\text{NC}_6\text{H}_4\text{N}_2\text{Cl}$ (from 2.67 g. $p\text{-O}_2\text{NC}_6\text{H}_4\text{N}_2\text{Cl}$) in 10 ml. ice-cooled 10% added to 7.30 g. II in 12 ml. EtOH and 0.46 g. Na in 15 ml. EtOH and the resulting emulsion stirred 30 min. at room temp. yielded from the ether ext. 1.6 g. (10.6%) $p\text{-O}_2\text{NC}_6\text{H}_4\text{N}_2\text{Cl} \cdot \text{C}_6\text{H}_4\text{CO}_2\text{Et} \cdot \text{C}_6\text{H}_4\text{CO}_2\text{Et}$ (IV), m. 141° from EtOH. On hydrogenation over Pd-C in 25 ml. abs. EtOH acidified with 2.4 ml. 20.7% HCl in dry ether 1.45 g. IV absorbed 220 ml. H₂ (theoretical, 224 ml.) and yielded inactive $\text{C}_6\text{H}_4\text{CO}_2\text{H} \cdot \text{C}_6\text{H}_4\text{CO}_2\text{H} \cdot \text{N}_2\text{H}_4\text{Cl}$ (V), m. and mixed m.p. 114-16° (from AcOH) (yield not given). Previously reported procedures (loc. cit.) changed V by means of Ac₂O and AcOH to 87% inactive $\text{C}_6\text{H}_4\text{CO}_2\text{H} \cdot \text{C}_6\text{H}_4\text{CO}_2\text{H} \cdot \text{N}_2\text{H}_4\text{Cl}$ (V), m. 71-3° (2,4-dinitrophenylhydrazide, m. 105-7°), and thence by means of LiAlH₄ (Kofmanich, et al., C.A. 49, 22954) to 90% mixed *threo*- and *erythro*-racemates of I, m. 90-107°, sepd. by fractional crystn. of the tri-Ac derivs. (VI). The mixed racemates (1.815 g.) in 60 ml. dry C₆H₆N and 6.3 ml. Ac₂O kept 48 hrs. at 20°, evapd. in vacuo at 40°, and the residue taken up in ether yielded 2.06 g. (91%) crude VI, m. 80-70°. Fractional recrystn. from petr. ether (b. 25-40°) sepd. 2 crops, m. 80-2° and 66-8°, resp. (cf. for the *threo*-racemate of I, m. 67-8° and 65-6°, found by Grob, et al. (C.A. 46, 6590a), and Carter,

et al. (C.A. 48, 9007g), resp.). XIV. Structure of sphingoglycosides. J. Kiss and I. Jurecek (Ibid 477-86) (in English).—A preliminary communication. The only unsolved structural problem for the 3 sphingoglycosides (I) is the question of α - or β -linkage of the galactose. Cerebrin, keratin, and nervon were separately hydrolyzed and fajV values detd. for the liberated sugars, together with those for the hydrolysis product of a β -D-galactose. Curves for fajV values vs. time are similar for all 4 sugars, and the α -linkage is therefore probable for all. This conclusion is confirmed by the slow (72 hrs.) rate of intercalation at room temp. of I (cf. Lemieux, C.A. 48, 1346) and by enzymic tests. Paper details are to be reported later.

H. S. Peruch

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CIA-RDP86-00513R000722910008-2"

11. 3, 4.

Jirasek, I. Stereochemical and synthetic studies in the sphingolipid field. 10.

11. The structure of sphingoglycosides. In English. p. 477.

ACTA CHIMICA, Budapest, Vol. 5, no. 3/4, 1955.

12: Monthly List of East European Accessions, (MEM), 10, Vol. 2, no. 12, Oct. 1955,
Uncl.

KISS J.

COUNTRY	:	GDR	Q-3
CATEGORY	:		
ABS. JOUR.	:	AZKhim., No. 21 1959, No.	75091
AUTHOR	:	Kiss, J. and Sirokman, F.	
TYPE	:	Not given	
TITLE	:	Stereospecific Synthesis of Erythro-2-amino-1,3,4-trihydroxybutane	
ORIG. PUB.	:	Chimia, 13, No 4, 114 (1959)	
ABSTRACT	:	<p>The structure of natural sphingosine has been confirmed by the synthesis of D-erythro-2-amino-1,3,4-trihydroxybutane (D-1). The trans-dibenzyl ester (DBE) of 2,3-epoxy-1,4-butanediol was prepared from trans-1,4-dibromo-2-butene and $C_6H_5CH_2ONa$ via the trans-DBE of 2-butene-1,4-diol. Amination of the latter product gives the DBE of 1, mp 61-63°, which is cleaved into the antipodes of L-glutamic acid. The glutamate of the DBE of 1, mp 186°, is debenzylated to give D-1.</p>	

CARD: 1/2

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H/016/60/010/010/004/004
B009/B057

24.7100 (1043)

AUTHOR: Kiss, József

TITLE: The Structure of Real Crystals - II. Color Centers in
Alkali Halide Crystals

PERIODICAL: Fizikai Szemle, 1960, Vol. 10, No. 10, pp. 309-315

TEXT: Introduction: The examination of the so-called color centers obtained in alkali halides by cathode-ray bombardment gives much information on the structure of these compounds and on their bonds. I. Color centers: 1) Coloring methods: Besides by cathodic irradiation, crystals can be colored additively (by heat treatment or electrolysis) or photochemically. 2) Gyulai and co-workers (Ref. 1) produced coloring by pressure and subsequent heat treatment. 2) F-band: In the visible spectrum of crystals treated by methods under 1), a characteristic absorption band appears so named by Pohl. A general formula for it was given by M. F. Deygen (Ref. 3). F-centers are irregularities produced in the course of coloring, and can be destroyed by photochemical or heat treatment. 3) Features of crystals containing F-centers: a) photoconduction; b) development of the F'-band

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The Structure of Real Crystals - II. Color
Centers in Alkali Halide Crystals

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overlapping the F-band. The F'-center behaves like a singly-charged negative ion. The F-center is thus neutral. 4) Lattice defects: As against "ideal crystals", real crystals present defects or irregularities such as: a) ion or electron defect or excess; b) structural defects (dislocations, block boundaries etc); c) chemical deficiencies (outer atoms or ions). Electric defects are of basic importance. In a neutral crystal, the Coulomb space can develop: a) as the so-called Frenkel' defect; b) as the Schottky defect; c) as self-capture, so named by L. Landau (Ref. 7). F-centers appear to be electrons captured in a thermodynamically developed negative ion defect. 5) Determination of the F-center concentration: The different (optical, density, and chemical) measurement methods show good agreement and confirm previous ideas. 6) The mechanism of development of color centers: In photochemical coloring, ionizing radiation releases photoelectrons; this is the primary effect of radiation. In the crystal, every temperature is associated with a positive and a negative ion defect. These combine to nodes for energetic reasons. II. The characteristic absorption of alkali halide crystals: 1) Exciton bands: In the case of alkali halides, excitons may be considered as excited halide ions; they behave like particles possessing mobility and

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The Structure of Real Crystals - II. Color
Centers in Alkali Halide Crystals

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effective mass. 2) α - and the β -bands: These may be regarded as belonging to the fundamental absorption band and develop on the long-wave side of the latter. III. Aggregates of F-centers: 1) The R'-band: This is produced by reduction of the F-band by heat treatment. 2) The R₁-, R₂-, M- and

N-centers and their absorption bands: Scott and, later, Petroff (Ref. 17) observed the build-up of several well-defined bands instead of the R'-band, if the irradiated crystal is cooled. IV. Colloid bands: W. Savostyanova (Ref. 24) examined absorption bands in NaCl, produced by Na-colloids. The color-center problem covers a wide range: V-bands in the ultraviolet region, Z- and U-bands in the visible spectrum are not treated in this paper. There are 8 figures and 24 references: 3 Soviet, 9 German, 9 US, 2 British, 1 Dutch, 1 Japanese, and 1 Hungarian.

ASSOCIATION: Építőipari és Közlekedési Egyetem Kísérleti Fizikai Inté-
zete
(Laboratory of Experimental Physics, University of the
Building Industry and Communications)

Card 3/3

KISS, Jozsef, bronzermes ujito; KONNAR, Janos

One out of ten thousand; Jozsef Kiss, bronze medal winning innovator. Munka 11 no.6:28 Je '61.

1. Hidepito Vallalat epitesvezetoje (for Kiss). 2. "Magyar Radio" rovatvezetoje (for Konner).

KISS, Jozsef, dr.

Experiences with a simple method of manometric cholangiography during surgery. Orv. hetil. 103 no.45:2136-2138 11 N '62.

1. Szegedi Orvostudományi Egyetem, I. Sebészeti Klinika.
(CHOLANGIOGRAPHY) (MANOMETRY)

KISS, Jozsef

Hair salt. Fiz. szamla 14 no. 71206-206. 31. 04.

1. Research Group of Crystal Growth, Hungarian Academy of Sciences,
Budapest.

65
AUTHOR: Kiss, Jozsef B

natural rock-salt crystals of needle-like configurations (Haarsale)

ment of an organized defense against the disease. 17 non-

KISS, JOSEF.

11 G

Immunization experiments with antigens of different groups. 1. Mita Kuo-Kin and Josef Kiss (Electro-chemical Karyoprecipitation method, Budapest, Hungary, 1944) *Lappe Nipponkogyo* 3, 415 (1947). - Intramuscular injections of blood of a group different from that of the subject and of saliva as immunizing agents increased the haemagglutination and the haemolysis resistance. In the serum of persons treated a specific antibody is formed which precipitates the homologous antigen in saline. 14 references. (Seven kindly

450.554 DETAIL MEDICAL LITERATURE CLASSIFICATION

TUPAJ, Pal, dr.; KISS, Julia, dr.; SZORADY, Istvan, dr.

On the clinical significance of ceruloplasmin. Orv. hetil.
105 no.33:1545-1550 16 Ag '64.

' . Szegedi Orvostudományi Egyetem, Gyermekklinika (Igazgató:
Bóla Lomkós dr.).

KIOS, K.

Professional agricultural circles. p. 24. (Magyar Mezőgazdaság, Vol. 11, no. 2, Jan. 1956
Budapest)

SO: Monthly List of East European Accession (MEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

TIGYI, A.; MIRISZLAI, E.; KISS, K.; LISSAK, K.

Significance of vagal afferentation in the regulation of diencephalic vegetative reactions. Acta physiol.hung. 17 no.4:401-406 '60.

1. Institute of Physiology, Medical University, Pecs.
(VAGUS NERVE physiol)
(DIENTRPHALON physiol)

HUNGARY

BOHENSZKY, György, Dr. BOKOR, Zsuzsa, Dr. KUSTOG, Gyula, Dr. KISS, Kornelia, Dr. Medical University of Pecs, I. Medical Clinic (Pecs) Orvostudományi Egyetem, I. Belklinika).

"The Significance of Phonocardiograms Obtained from a Lead Through the Esophagus."

Budapest, Orvosi Hetilap, Vol 104, No 18, 5 May 63, pages 829-831.

Abstract: [Authors' Hungarian summary] The authors discuss the performance of the Bohenszky-Zselenyi esophageal microphone probe. The sound effects obtained from the dorsal surface of the heart are valuable in the diagnosis of mitral abnormalities. 5 Western, 3 Eastern European references.

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KISS, K.

"The Pneumatic Transportation of Cement" p. 330 (Politeanag, Vol. 3, No. 10,
October, 1953, Budapest)

SO: Monthly List of East European Vol. 3, No. 3 1954
Russian Accessions, Library of Congress, March 1973, Uncl.

Kiss, K. PROLY

Hungary /Chemical Technology. Chemical Products
and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31679

Author : Kiss Karoly

Title : Asbestos and Its Uses

Orig Pub: Epitoanyag, 1955, 7, No 3, 102-109

Abstract: Detailed description of the mechanical, chemical and thermal characteristics of different varieties of asbestos. The deposits and the utilization methods are described. Results of experiments on preparation of synthetic asbestos are cited.

Card 1/1

KISS, K.

KISS, K. Production of asbestos cement and problems of its quality. p. 107

Vol. 49, no. 6, June 1956

EPITOANYAD

Budapest, Hungary

SO: East European Accession Vol. 6, no. 3, March 1957

KISS, K.; KOERSZEGI, P.

Investigation of the ruptured structure of the coal basin in Oroszlány by geophysical methods. p. 681.

BANYASZATI LAPOK. (Magyar Bányászati és Kohászati Egyesület) Budapest, Hungary. Vol. 14, no. 10, Oct. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 26, no. 1/2, 1959.
Uncl.

KISS, Karoly

Technical development problems of the Szolnok-Bekescsaba-
lokozhaza main line. Vasut 14 no.11:14-15 N '64.

1. Deputy Head, Directorate of the Hungarian State Railways,
Szeged.

KISS, Karoly

Preparation of the 1961 production plans. Munka 10 no.12:8
D '60.

1. Szakszervezetek Országos Tanácsa szervezési osztályának
helyettes vezetője.

CSANADI, Gyorgy, dr., egyetemi tanar; FASKERTI, Sandor; SZABO, Dezso, dr.,
a kozlekedestudomanyok kandidatusa, okl.mernok; CSUHAY, Denes;
TAKACS, Endre; CSABAI, Rudolf; NAGY, Rudolf; KUTAS, Laszlo, mernok;
VASARHELYI, Boldizsar, dr., a muszaki tudomanyok doktora, tanszek-
vezeto egyetemi tanar; KOLLER, Sandor, musgyetemi adjunktus; KALNOKI
KISS, Sandor; GYOMBER, Sandor; TALLO, Gyula; KOZARY, Istvan; SZILAGYI,
Lajos; HEGYI, Kalman, okl.mernok; BERCZIN, Andras; MARKI, Laszlo; PALFI,
BUDINSZKI, Endre; NAGY, Endre, okl.mernok; SZATMARY, Ferenc; MAGORI,
Judit; CSIKHELYI, Bela; MESZLERI, Zoltan; VEROSZTA, Imre; ZSICA, Sandor;
TOROK, Istvan; KOMCZ, Laszlo; WESSELY, Ferencne; SZABO, Bela; KOMOROCZI,
Lajos; GINTL, Jozsef; CSONTOS, Dezso; JAKAB, Sandor; LOVASZ, Istvan,
mernok; KISS, Karoly; ~~KODOLCZI, Karoly~~

The City Transportation Conference in Szeged. Kozl tud az 12 no.2:
49-54 F '62.

1. Akademiai leveleso tag, a kozlekedes- es postaugyi minisster
elso helyettese, es "Kozlekedestudomanyi Szemle" szerkeszto
bizottsagi tagja (for Csanadi) 2. Kozlekedes- es Postaugyi Minissterium
Muszaki Felugyeleti Osztalyanak vezetoje (for Faskerti) 3. Fovarosi
Tanacs Vegrehajto Bizottsaga VIII. Varosrendezesi es Epiteszeti
Osztalyanak munkatarsa, es "Kozlekedestudomanyi Szemle" szerkeszto
bizottsagi tagja (for Szabo)

(Continued on next card)

GRANATI, Gyorgy --- (Continued) Card 2.

4. Fomernok, Kozlekedes- es Postaugyi Miniszterium Kozlekedespoli-
tikai Osztalyanak munkatarsa (for Csuhay) 5. Kozlekedes- es Postaugyi
Miniszterium Autokozlekedesi Vezirigazgatosaganak szakosztalyvezetoje
(for Takacs) 6. MAV fointezo, a Kozlekedestudomanyi Egyesulet miskolci
területi szervezetenek titkara (for Csabai) 7. Fomernok, a Fovarosi
Tanacs Vegrehajto Bizottsaga Kozlekedesi Igazgatosa helyettes
vezetoje (for Nagy) 8. Fovarosi Tanacs Vegrehajto Bizottsaga
Kozlekedesi Igazgatosaganak fejlesztési eloadoja (for Kutas)
9. "Kozlekedestudomanyi Szemle" szerkeszto bizottsagi tagja (for
Vasarhelyi) 10. Csoportvezeto fomernok, Debrecen m.j. Varosi Tanacs
Vegrehajto Bizottsaga Ipari es Kozlekedesi Osztaly (for Kalnoki Kise)
11. Rendorornagy, Csengrad Megyei Rendorfokapitanysag Kozrendvedelmi
Osztalya (for Gyomber) 12. Fomernok, Miskolc m.j. Varosi Tanacs
Vegrehajto Bizottsaga Epitesi es Kozlekedesi Osztaly (for Tallo)
13. Fomernok, Kozlekedes-es Postaugyi Miniszterium Utoosztalya (for
Kosary) 14. Fovarosi Tanacs Vegrehajto Bizottsaga VIII. Varosrendezesi
es Epitesi Osztalyanak vezetoje (for Szilagyi) 15. Ut-Vasutierrezo ~~Minis-
terium~~ Kozlekedesi Osztalya vezetoje (for Hegyi) 16. BUVATI Kozlekedesi es
Kommunikacios Osztalyanak vezetoje, Budapest (for Berczik) 17. Pecs m.j.
varos Tanacs BV Epitesi es Kozlekedesi Osztalyanak vezetoje (for
Marki)

(Continued on next card)

CSANADI, Gyorgy --- (Continued) Card 3.

18. Szeged m.j. Varosi Tanacs Epitesi es Kozlekedesi Osztalyanak
fomernoke (for Palfi Budinszki) 19. Budapest Fovarosi Tanacs Melyepitesi
Tervezo Vallalat iranyito tervezoje (for Endre Nagy) 20. Debreceni
Kozlekedesi Vallalat igazgatoja (for Szatmary) 21. Budapest Fovarosi
Tanacs Melyepitesi Tervezo Vallalat tervezomernoke (for Magori)
22. Budapest Fovarosi Tanacs Melyepitesi Tervezo Vallalat tervezomernoke
(for Csikhevi) 23. Miskolci Kozlekedesi Vallalat fomernoke (for Messler)
24. Kozlekedes- es Postaugyi Miniszterium Autokozlekedesi Focastalyanak
fomernoke (for Verosta) 25. Szegedi Kozlekedesi Vallalat fomernoke
(for Zsiga) 26. Miskolci Kozlekedesi Vallalat fokonyveloje (for Torok)
27. Debreceni Kozlekedesi Vallalat fomernoke (for Koncz) 28. Penzugy-
miniszterium foeladoja (for Wessely) 29. Pecs Kozlekedesi Vallalat
igazgatoja (for Szabo) 30. Epitesugyi Miniszterium Varosrendezesi
Focastalyanak mernoke (for Komorocsi) 31. Fovarosi Villamosvasut
Fomernoke (for Gintl)

(Continued on next card)

CSANADI Gyorgy — (Continued) Card 4.

32. 51-es Autoközlekedési Vállalat munkatársa (for Csontos).
33. Ut-Vasuttermelő Vállalat irodavezető főmérnöke (for Jakab).
34. Budapesti Helyierdők Vasutak osztályvezetője (for Lovász).
35. Magyar Államvasutak igazgatóhelyettese (for Kiss, Karoly).
36. Magyar Államvasutak vezérigazgatóhelyettese (for Rodonyi).

KISS, Karolyne, dr.

Conference on the technical language at the Hungarian
Academy of Sciences. Ipari energia 4 no.8:183,187 Ag '63.

1. Hotechnikai Kutato Intezet.

KISS, Karolyne, dr.

Conference on the technical language at the Hungarian
Academy of Sciences. Ipari energia 4 no.8:183,187 Ag '63.

1. Hőtechnikai Kutató Intézet.

PATAKFALVI, Albert, dr.; LENARD, E. Gergely, dr.; KISS, Kornelia, dr.

A contribution to the clinical picture of malignant reticulosis. Orv.
hetil. 103 no.9:405-407 Mr '62.

1. Pecsé Orvostudományi Egyetem, I Belklinika.

(RETICULOENDOTHELIOSIS pathol)

BONEHSZKY, Gyorgy, dr.; BOKOR, Zsuzsa, dr.; KUSTOS, Gyula, dr.; KISS,
Kornelia, dr.

On the significance of phonocardiograms taken from the esophagus.
Orv. hetil. 104 no.18:829-831 5 My '63.

1. Pecsí Orvostudományi Egyetem, I. Belklinika.
(PHONOCARDIOGRAPHY) (ESOPHAGUS) (MITRAL STENOSIS)
(MITRAL INSUFFICIENCY)

KISS, Ladislau

Controlling experimental indexes of school construction manual
labor. Constr Buc 15 no.721:3 N '63.

1. Normator tehnolog la Trustul Regional de Constructii de Locuinte,
Cluj.

KISS, Ladislau

Fewer hours in constructing an apartment. Constr Buc 16
no. 739:3 7 March '64.

1. Nermator tehnolog la Trustul Regional de Constructii de
Locuinte, Cluj.

COSMA, Frederic; KISS, Ladislau, tehnician de normare; IENCIU, Traian;
BARBALATA, St.; ENESCU, Constantin, tehnician; HOTUPA, Florian,
correspondent; BONCUT, Remus

Problems connected with the organization of production brigades.
Constr Buc 16 no.746:3 25 April'64.

1. Trustul Regional de Constructii de Locuinte, Cluj (for Kiss).
2. Seful serviciului organizarea muncii, Trustul Regional de Constructii de Locuinte, Cluj (for Cosma).
3. Seful serviciului organizarea muncii de la grupul de santiere nr.2 Sibiu, Trustul Regional de Constructii de Locuinte, Brasov (for Ienciu).
4. Seful serviciului organizarea muncii de la grupul de santiere nr.1, Trustul Regional de Constructii de Locuinte, Galati (for Barbalata).
5. Seful serviciului organizarea muncii, Directia generala constructii-montaj, Bucuresti (for Boncut).
6. Trustul Regional de Constructii de Locuinte, Arges (for Enescu).

KISS, Lajos

Illuminated rail barrier. Magy vasut 7 no.21:2 2N '63.

KISS, Lakos (Alsoors)

Phototubes for preventing accidents. Nagy vasut 7 no.19:2
0 '63.

Technical tasks, I.

Technical tasks of the new economic and planning system in the leather and shoe industry; also, remarks by Kornal Hay and others.

P. 30 (BOR-ES GYOTI-CHENKA) Budapest Vol. 7, No. 2, May 1957.

30: Monthly Index of East European Accessions (MEEI) Vol. 6, No. 11 November 1957.

COUNTRY : Hungary
 CATEGORY : D
 ADS. JOUR. : AZKhal., No. 1959, No. 856,7
 AUTHOR : Tokats, T.; Hias, L.
 TITLE : Investigation of the Material from Antioch
 and in Quarries
 ORG. PUB. : Erdtanyag, 1959, 11, No 1-2, 34-40
 ABSTRACT : On the basis of the advanced data on geological
 composition (chemical, microscopic, thermal,
 petrographical) and properties, a reconstruction is made
 of the geological and geotectonic conditions of formation
 of the rocks. The starting material was the little known
 rocks were converted by strong hydrothermal action to
 a crystalline rocks with inclusions of quartz, albite,
 and feldspar. G. Vorob'yev.

DATA:

KISS, L.

"Power outlook of the world."

p. 128 (Energia Es Atomtechnika) Vol. 10, no. 2/3, May/June 1957
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

KISS, L.

"Climatic-biological investigation on human beings and vegetal micro-organisms." p. 332

IDOJARAS. (Meteorologiai Intezet es Magyar Meteorologiai Tarsasag)
Budapest, Hungary, Vol. 62, No. 6, Nov./ Dec. 1958.

Monthly List of East European Accessions (EEAI) LC, Vol 8, No. 6, June 1959
Uncl.

KISS, LAJOS

Vasarahelyi hetkosnapok. Budapest, Hungary, Magveto Konyvkiado, 1958. 311 p.

Monthly List of East European Accessions (KEAI), LC, Vol. 8, no. 7, July 1959
Uncl.

KISS, Lajos, dr., a nyelvtudományok kandidátusa

What is the etymology of "tündérez"? Eset tud 18 no.3:85 Ja '63.

KISS, Lajos

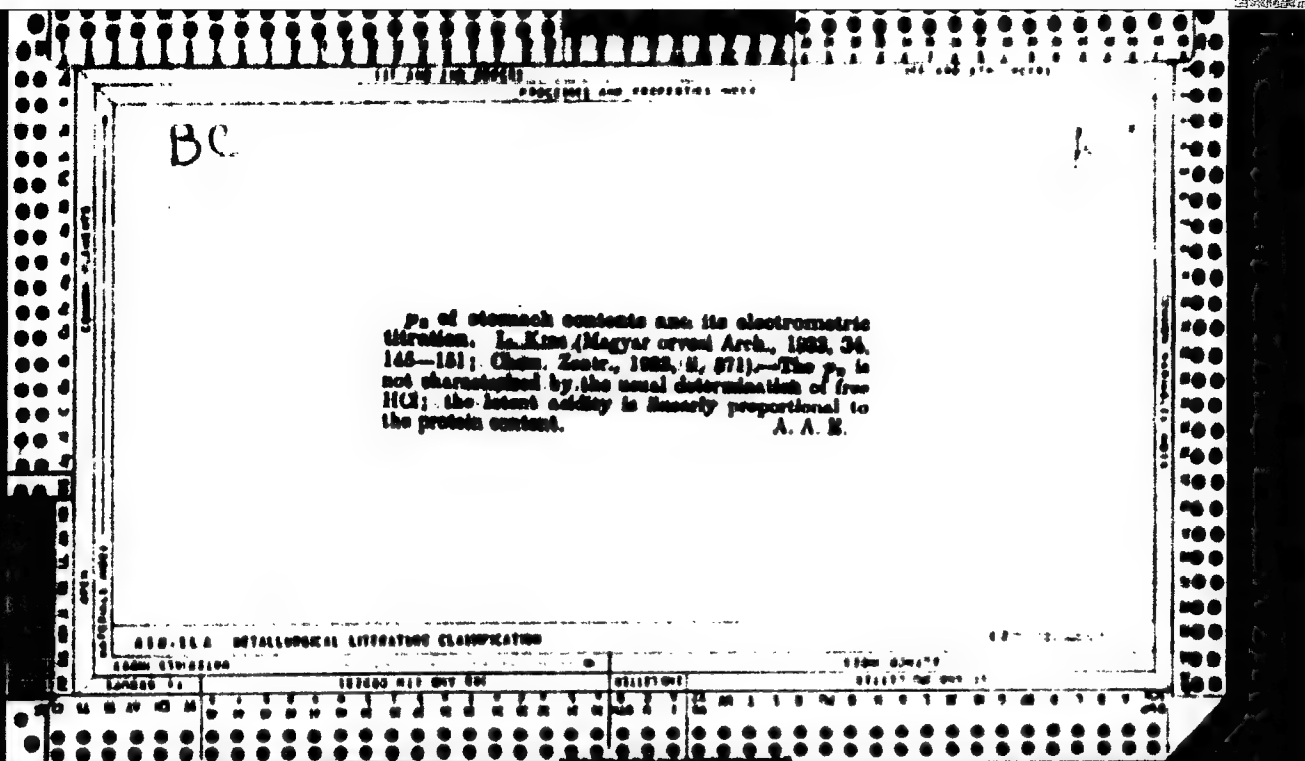
New method for welding the thermit of broken rolling mill
cylinders. Musz elet 18 no.10:16 16 My '63.

3

KISS, Lajos (Alsoors)

An ingenious innovation. Magyar vasut 7 no.23:1 2 D '63.

A well-laboring intertrade commission. 4



GABOR, M.; DUX, E.; KISS, L.

Antagonism between coagulation inhibitors and vitamin P simulants.
Acta physiol. hung. 3 no.1:195-198 1952. (CML 24:3)

1. Of the Institute of Pharmacology of Szeged University.

GABOR, M.; HORVATH, B.; KISS, L.; DIRNER, Z.

Prolongation of the effect of adrenalin on isolated organs and in vivo by members of the hematoxylin group. Acta physiol. hung. 3 no.3-4: 585-590 1952. (CLML 24:5)

1. Of the Institute of Pharmacology of Szeged University.

KISS, L.

Action of a new synthetic chromone preparation on the
poisoned frog heart. M. Kiss and L. Kiss (Bud. Univ.,
Hungary). *Acta Physiol. Acad. Sci. Hung.* 8, 205-12 (1954)
(in German); cf. *C.A.* 48, 2003g. — 3-Methyl-5,8-dimethoxy-
chromone (I) poisoned a normal heart at a concn. of 1:1000.
A concn. of 1:10,000 I did not affect normal hearts, but
stimulated frog hearts depressed by urethan, alc., CHCl_3 ,
lactic acid, quinine, Ca-deficiency, or by fatigue. S. K.

GABOR, Miklos; HORVATH, Bertalan; KISS, Lajos

Study on the relationship of cardiac effect and chemical structure.
Kiserletes orvostud. 8 no.2:113-120 March 56.

1. Szegedi Orvostudományi Egyetem Gyógyszertani és Kóreltani
Intézete.

(HEART, eff. of drugs on
pyrone ring containing cpds., relation of cardiac
eff. to chem. structure. (Hun))

KISS, Lajos.

Tuberculous allergy. Tuberkulózis 10 no.5-6:97-101 May-June 57.

1. A XXI. kerületi (csapeli) tudabeteggondozó: Szakkay Antal
vezetőorvos: Kiss Lajos dr.)

(TUBERCULOSIS, immunol.

allergy. immun. & sensitisation mechanisms (Hun))

JAVOR, Tibor; KISS, Lajos; NAGY, Gyorgy

A surgical method for the production of internal biliary fistulae
in dogs. Kiserletes orvostud. 13 no.3:225-227 Jo '61.

1. Debreceni Orvostudományi Egyetem II. Belgyógyászati Klinikája
és Igasságügyi Orvostani Intézete.

(BILIARY FISTULA exper)

KISS, Lajos, dr., o.v. főorvos

Hirepin therapy of non-hypotonic tuberculous patients with complaints in the sternal region. Tuberkulózis 15 no.5:143-144 Máj '62.

1. A Budagyongyi Tüdő- és Szívbeteg Szanatorium (igazgató: Gálóczy Jeno dr.) közleménye.

(TUBERCULOSIS PULMONARY ther)
(CHLORPROMAZINE ther)
(RESERPINE ther)

KISS, Lajos, postmaster; MATS, Lajos, postmaster

Newer instructions for railroad parcel transportation. Collected
kozi 20 no. 48:792-793 29 N '64.

1. Ministry of Transportation and Postal Affairs, Budapest.

KISS, Lajos

Possibilities for direct broadcasting from telecommunication satellites. Hir techn 16 no.2:56-60 7 '65.

1. Experimental Institute of the Hungarian Post, Budapest.

1. V. I. Loshakov, *Travelling Express*, 1964, no. 1

Temperature and deformation measurement during welding. *Doc*
16 no. 9:339-341, 1964.

1. Chair of Mechanical Technology, Leningrad University of
Heavy Industry, Leningrad.

KISS, Lajos

It should be modernized. Magyar vasut 7 no. 17; 2 2 S '63.

KISS, Lajos (Alsoors)

Hard-working locomotive engineers. Nagy vasut 8 no.10:1
16 My '64.

KISS, Lajos

Change in upper leather assortment and its effect on the
use of materials. Bor cipo 14 no. 2:50-53 Mr '64.

1. Ministry of Light Industry, Budapest.

KISS, Laszlo

Importance of raw material supplies from the viewpoint of
economical production in the food industry. Elelm ipar 13
no.9:297-300 3 '59.

1. Országos Tervhivatal.

KISS, László, dr.

International cooperation of railways in the field of documentation and scientific information. Kozl tud ss 13
no.11:504-513 N°63

1. Vasuti Tudomayos Kutato Intezet osztalyvezetoje.

KISS, Laszlo

Examination of electrode processes occurring during the dissolution of chromium in sulfuric acid. Magyar kem folyoir 65 no. 11:431-436 N '59.

1. Eotvos Lorand Tudományegyetem Fizikai-Kémiai és Radiológiai Tanszeke, Budapest.

LENGYEL, Sándor, a kémiai tudományok doktora; KISZ, László, a kémiai tudományok kandidátusa

An account of the 14th Conference of the International Committee of Elector-Chemical Thermodynamics and Kinetics.
Kém. tud. közl. MTA 21 no. 3:339-341 '64.

1. Department of Physicochemistry and Radiology, Lorand Eotvos University, Budapest. 2. Editorial board member, "A Magyar Tudományos Akadémia Kémiai Tudományok Osztályának Közleményei" (for Lengyel).

KISS, Laszlo, okl. banyamernok

The new Hungarian bill on mining. Bany lap 93 no. 9:630-634 S 60.

KISS, Lasso, dr.

Parliamentary proceedings of the first Hungarian mining law.
Bany lap 94 no.2:138-139 F '61.

VARGA, Jozsef, okleveles banyamernok, fomernek; BENCZE, Laszlo, okleveles banyamernok; KISS, Laszlo, okleveles banyamernok, fomernek

Technical development of petroleum engineering and the 25-year old Hungarian petroleum industry. Bany lap 96 no.10:717-732 0'63.

1. Orszagos Koolaj - es Gazipari Troszt, Budapest; "Banyaszati Lapok" szerkeszto bizottsagi tagja (for Varga). 2. Orszagos Koolaj - es Gazipari Troszt vezorigazgathelyettese, Budapest (for Bencze). 3. Deldumantuli Koolaj - es Foldgastermelo Valalat, Bazakerettye (for Kiss).

KISS, Laszlo, dr., okleveles banyamernok

Remarks on the reform curricula of the mining sections of the
Technical University of the Heavy Industry. Bany lap 96
no.5:349 My '63.

KISS, Laszlo, dr., okleveles bányamérnök

The socialist mining laws. Bány lap 96 no.8:555-559 Ag '63.

1. Országos Bányaműszaki Főfelügyelőség, Budapest.

KISS, Laszlo, dr., okleveles bányamérnök

Some chapters from the Hungarian mining law. Bany lap 97
no. 5: 337-341 My '64.

1. National General Inspectorate of Mining Engineering,
Budapest.

KISS, Laszlo, dr., okleveles bányamérnök

Some chapters from the Hungarian mining law. Bány lap 97 no.6:
411-418 Ju '64.

1. National General Inspectorate of Mining Engineering, Budapest.

KISS, László, dr., olleveles bányamérnök

Some chapters from the Hungarian mining law. Bány lap '77 no.7:489-495 J1 '64.

1. National General Inspectorate of Mining Engineering, Budapest.

KISS, Lasso, dr., okleveles banyamernok

Coals (stone coals)? Bany lap 97 no.10:719-720 0 '64.

"APPROVED FOR RELEASE: 09/17/2001

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CIA-RDP86-00513R000722910008-2"

KISS, L.

HUNGARY/Physical Chemistry. Electrochemistry.

H

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73402.

Author : Cseh, I.; Balog, J.; Kiss, L.

Inst :

Title : On the Solution of Electrolytic Zinc in Dilute Perchloric Acid.

Orig Pub: Acta phys. et chem. Szeged, 1957, 3, No 1-4, 64-68.

Abstract: The solution rate (SR) of a Zn disc rotating around an axis perpendicular to its plane at the velocity of 350 revolutions per min. in 0.001 to 0.05 n. HClO₄ was studied. The SR of Zn was determined by titration and polarographically. It is shown that the SR depends on the HClO₄ concentration, and that it is constant at a certain HClO₄ concentration (with the exception of the initial

Card : 1/2

KISS, L. ZOLD, E.

The zinc-silver accumulator; a preliminary communication. p. 93.

(Magyar Kemiai Folyoirat. Vol. 63, no. 2/3, Feb./Mar. 1957. Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

MISS, L.

HUNGARY/Chemical Technology - Chemical Products and Their H-12
Application, Part 2. - Electrochemical Industries,
Electroplating, Chemical Sources of Electric Current.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 47396

Author : Ernő Zöld, ~~Laszlo Kiss~~

Inst : -

Title : Silver-Zinc Storage Cell.

Orig Pub : Magyar kem. folyoirat, 1957, 63, No 12, 334-338

Abstract : The Ag-Zn storage cell SH-12 is described. Its capacity is 12 ampere x hours and its specific energy is 220 watts per liter and 90 watts per kg.

Card 1/1